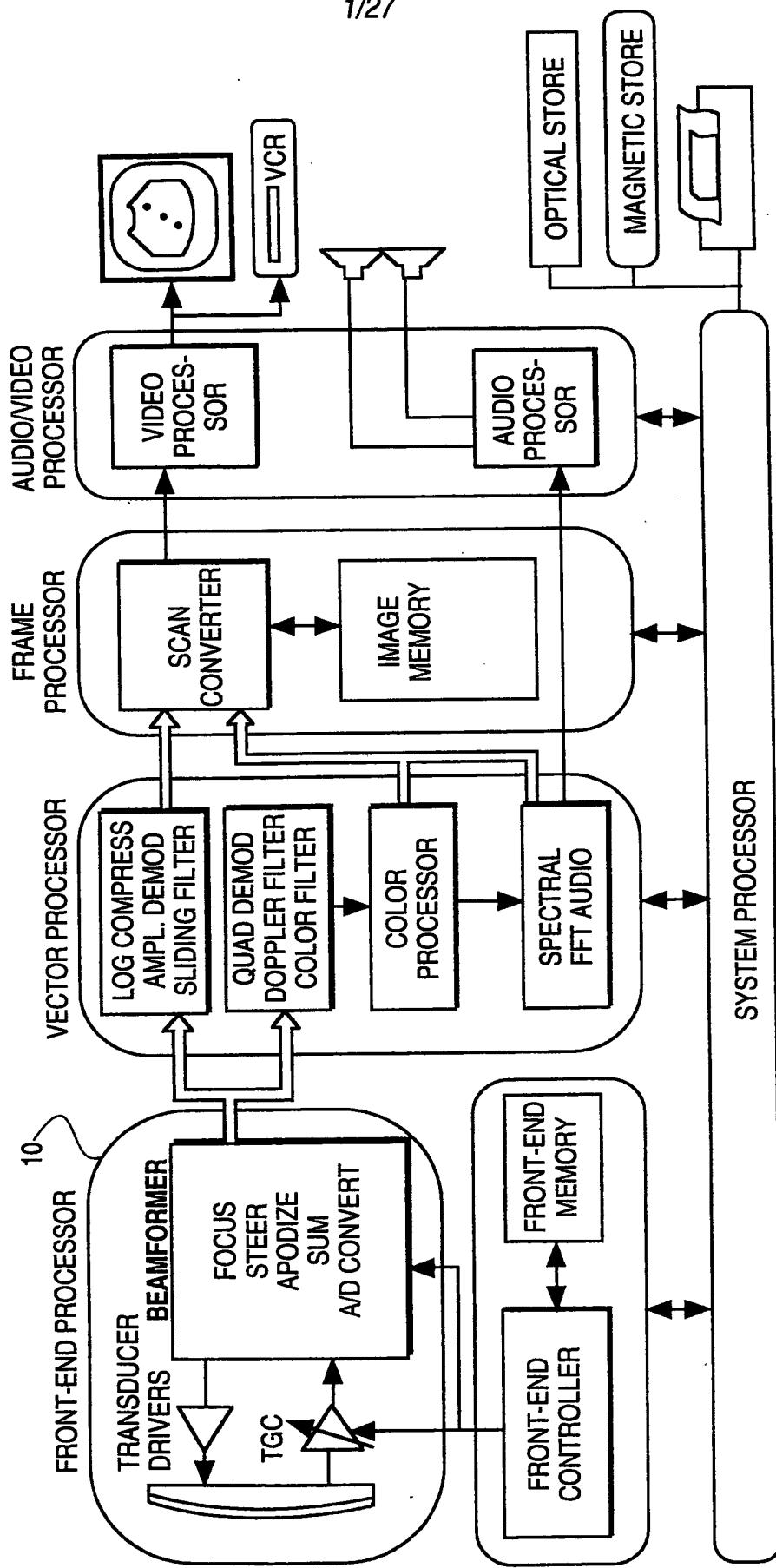


FIG. 1



ULTRASONIC IMAGING SYSTEM BLOCK DIAGRAM

FIG. 2
PRIOR ART

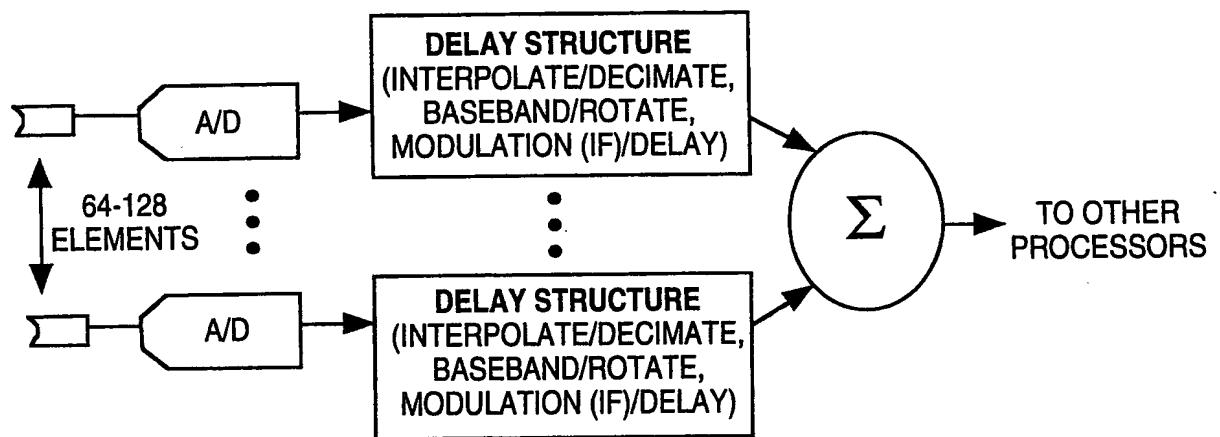


FIG. 3

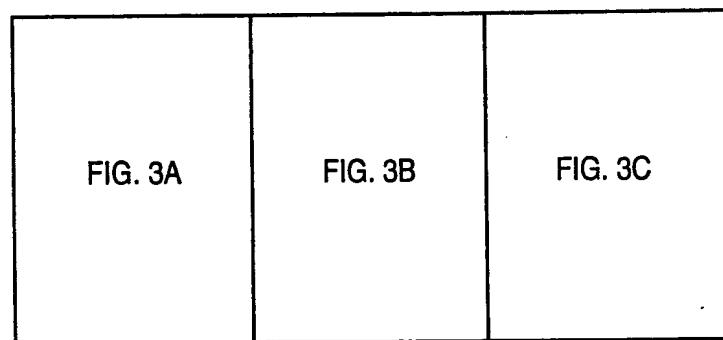


FIG. 3A

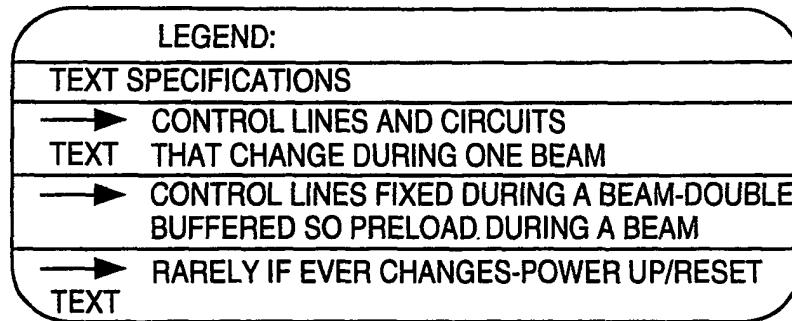
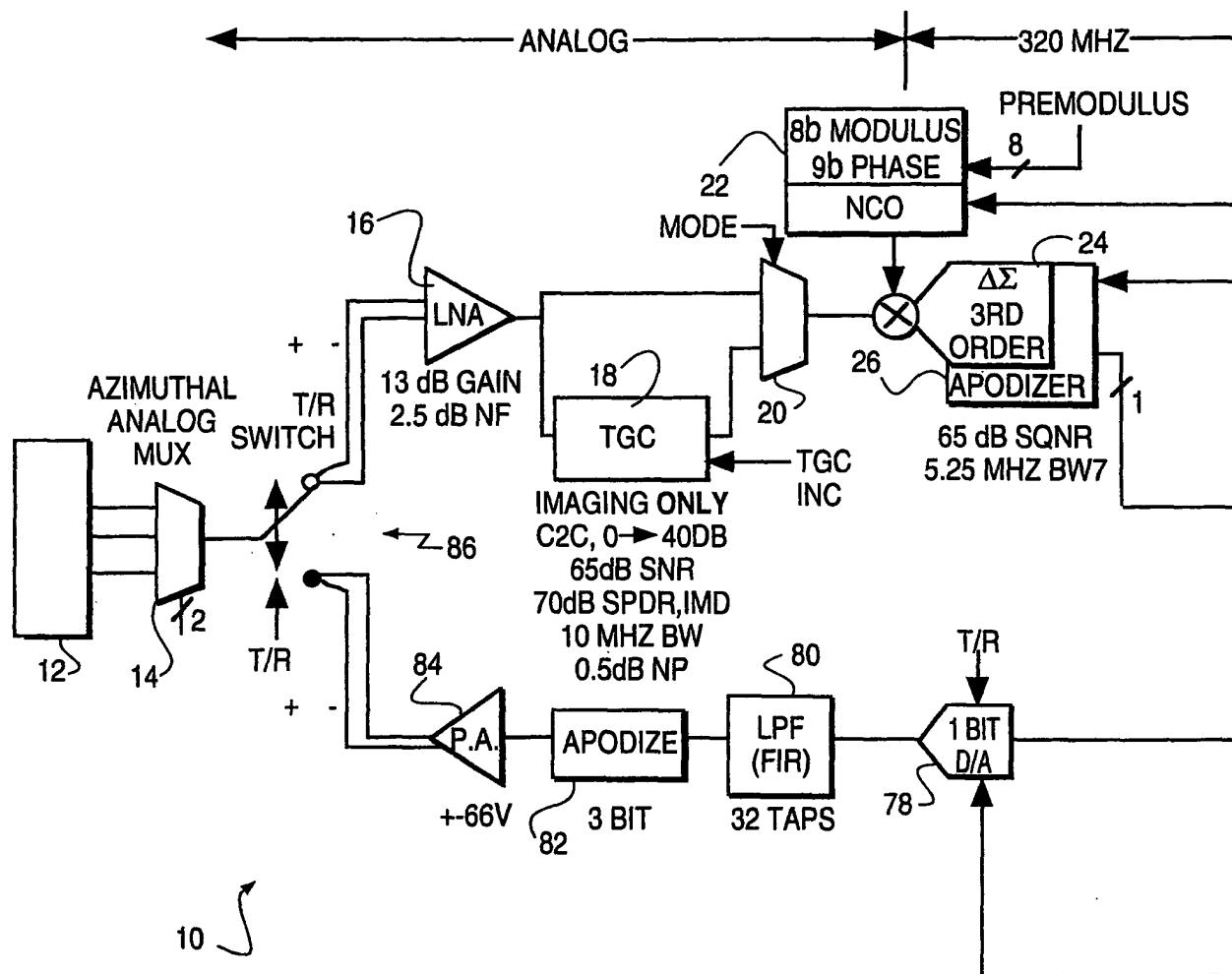


FIG. 3B

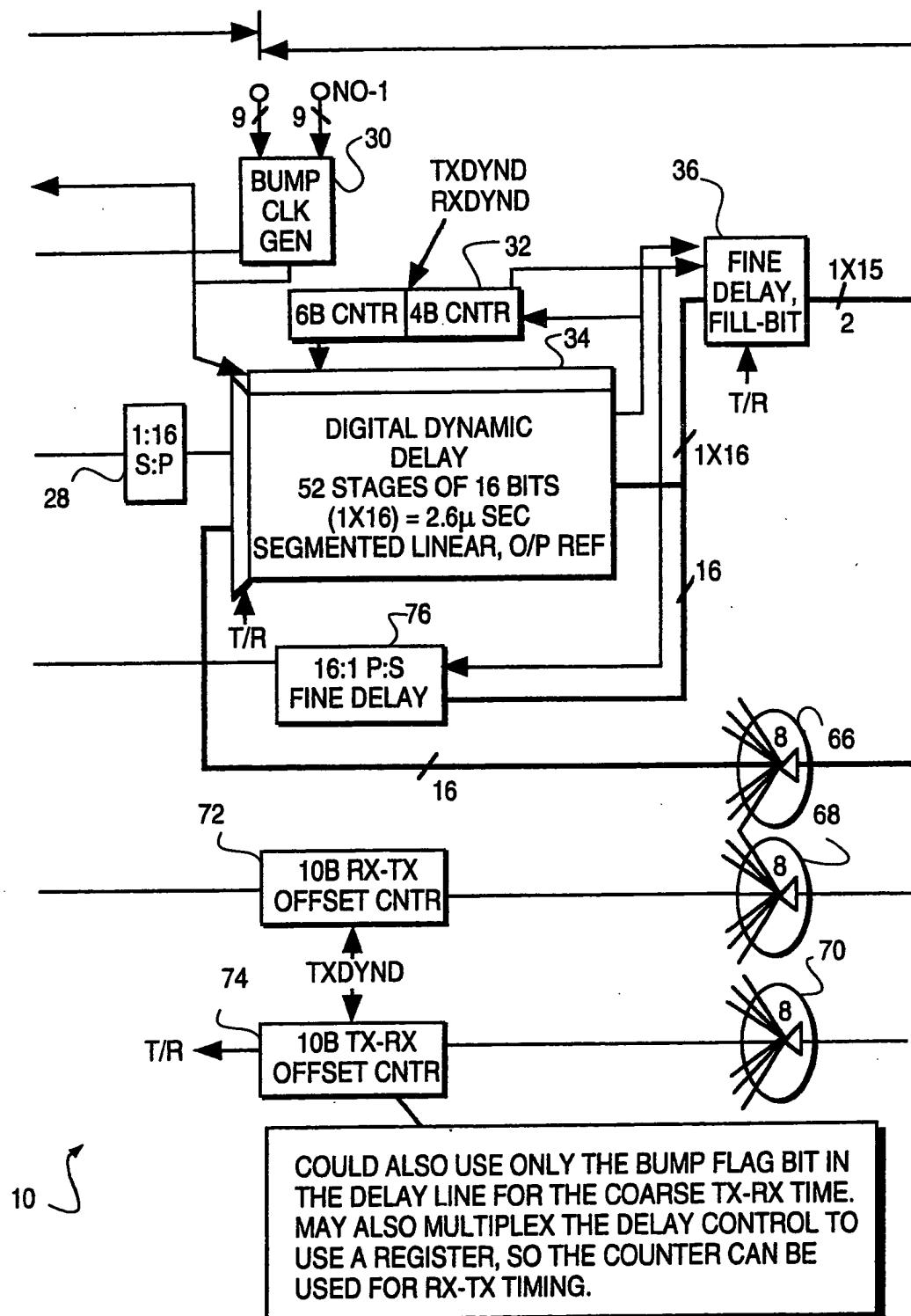


FIG. 3C

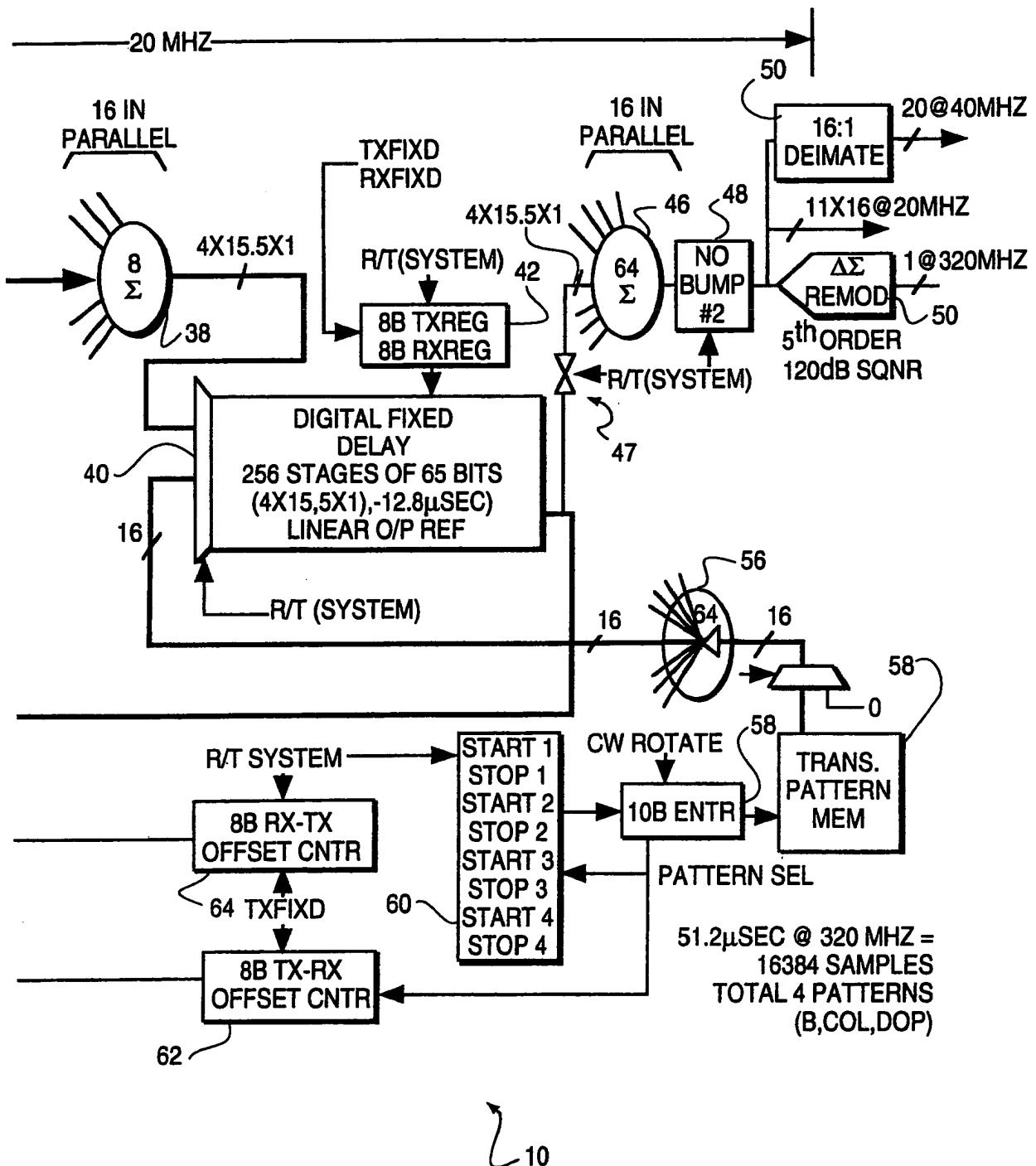


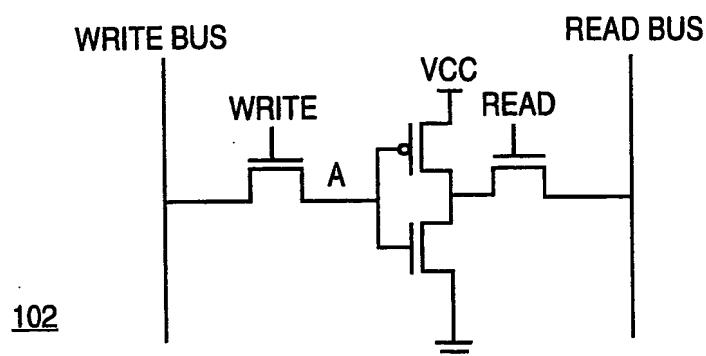
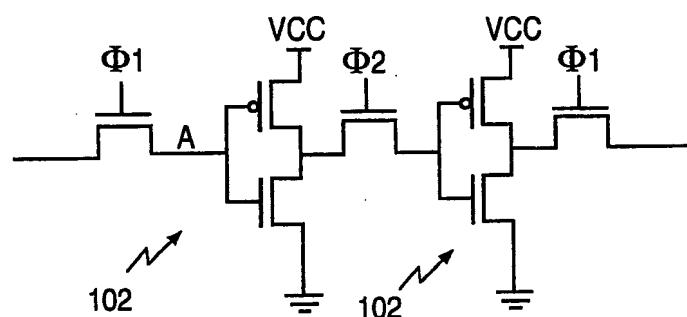
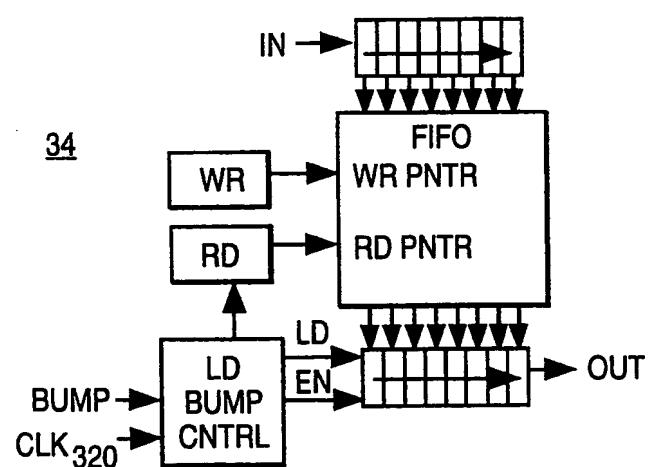
FIG. 4**FIG. 5****FIG. 6**

FIG. 7A

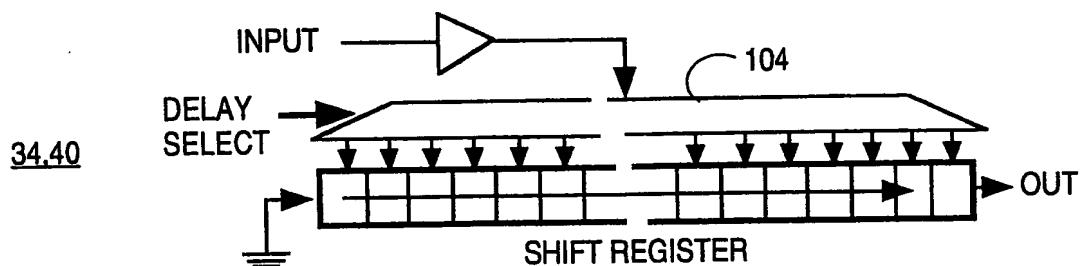


FIG. 7B

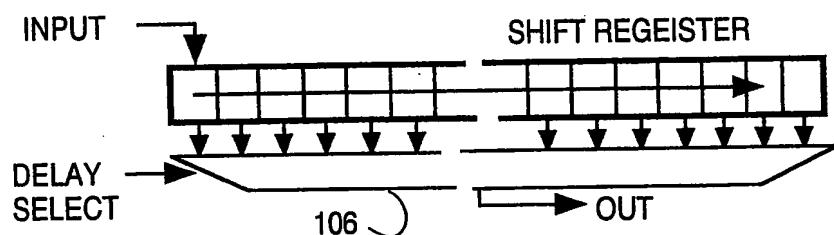
34.40

FIG. 8

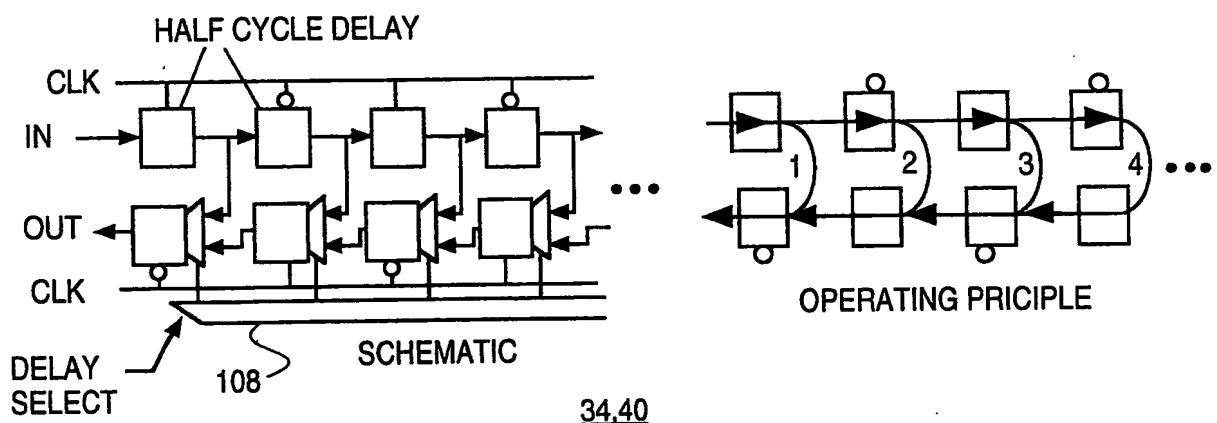
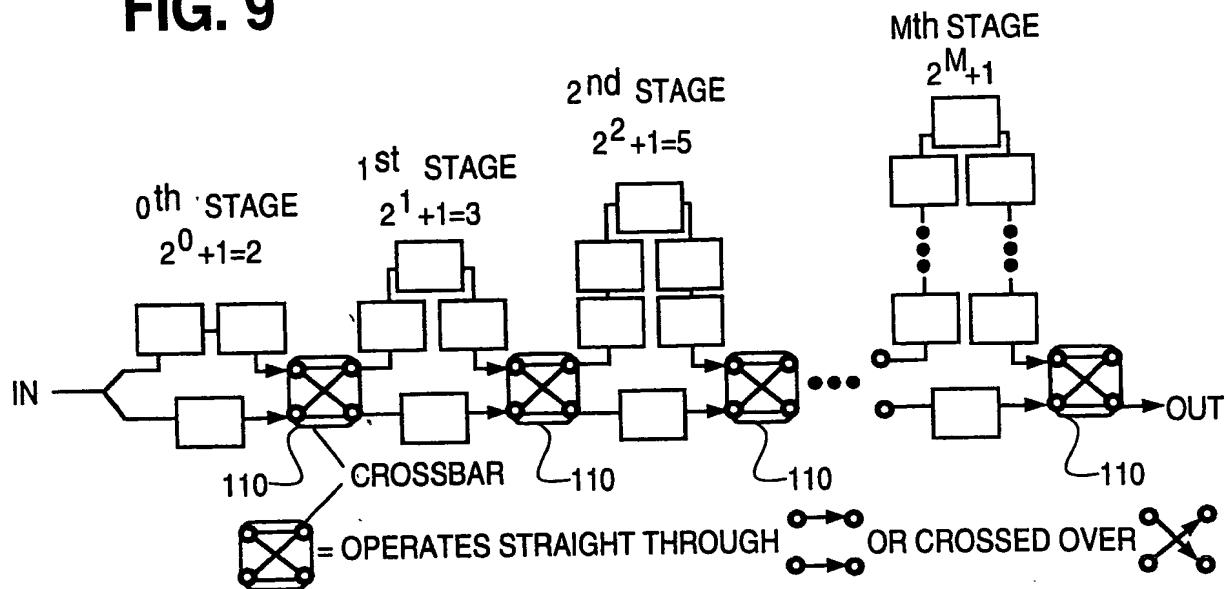
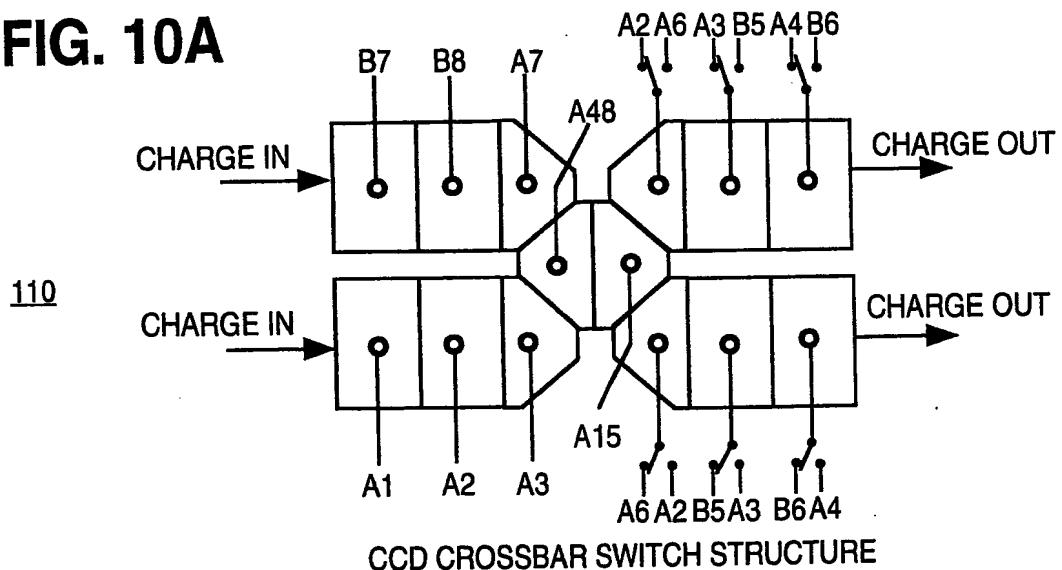
34.40

FIG. 934.40**FIG. 10A**

CCD CROSSBAR SWITCH STRUCTURE

FIG. 10B

A1	A2	A3	A4	A5	A6	A7	A8	B5	B6	B7	B8	A48	A15
1	1	0	0	0	0	0	0	1	1	1	1	0	1
0	1	1	0	0	0	0	0	1	1	1	1	0	0
0	0	1	1	0	0	0	0	1	1	1	1	1	1
0	0	0	1	1	0	0	0	0	1	1	1	0	1
0	0	0	0	1	1	0	0	1	0	1	0	1	0
0	0	0	0	0	0	1	1	1	1	0	0	1	0
1	0	0	0	0	0	0	1	1	1	1	0	1	1

CLOCK PATTERN

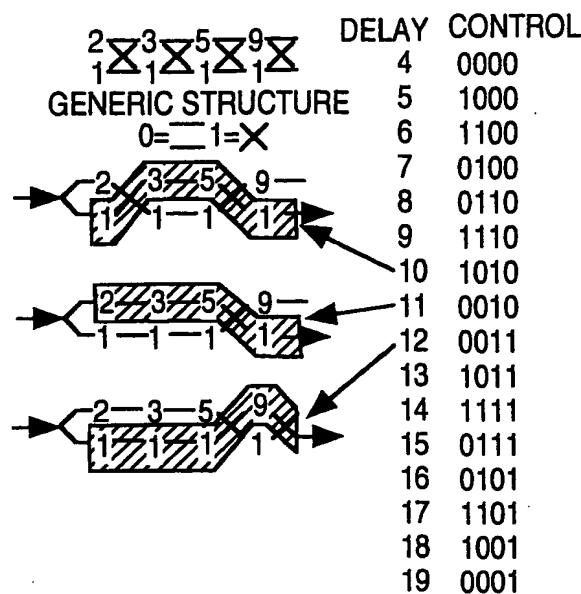
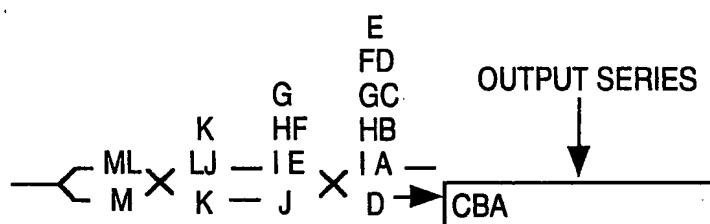
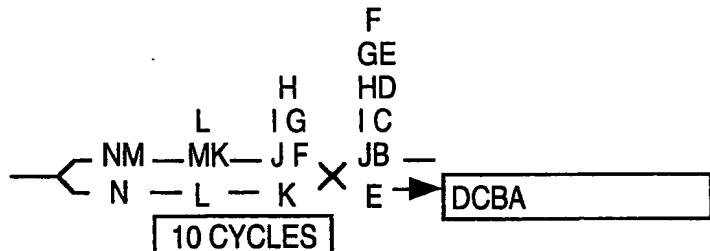
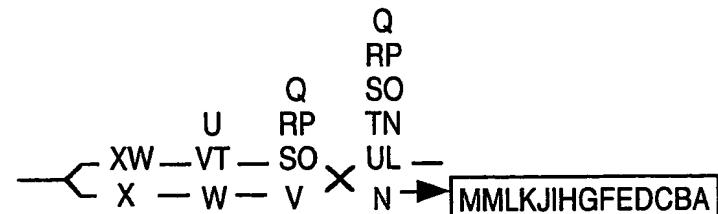
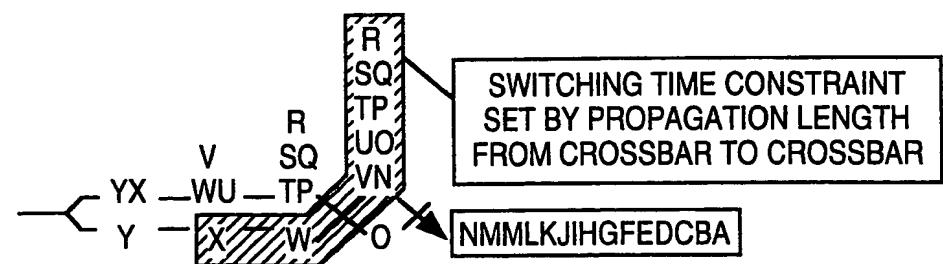
FIG. 11**FIG. 12A****FIG. 12B****FIG. 12C****FIG. 12D**

FIG. 13

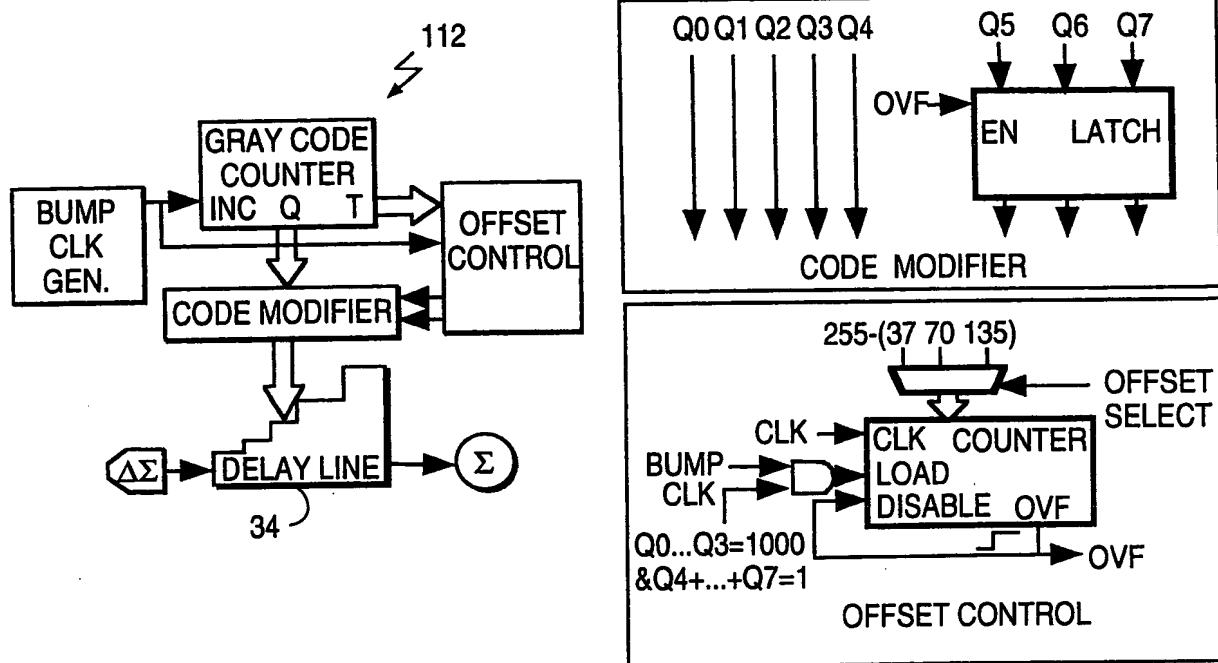


FIG. 14

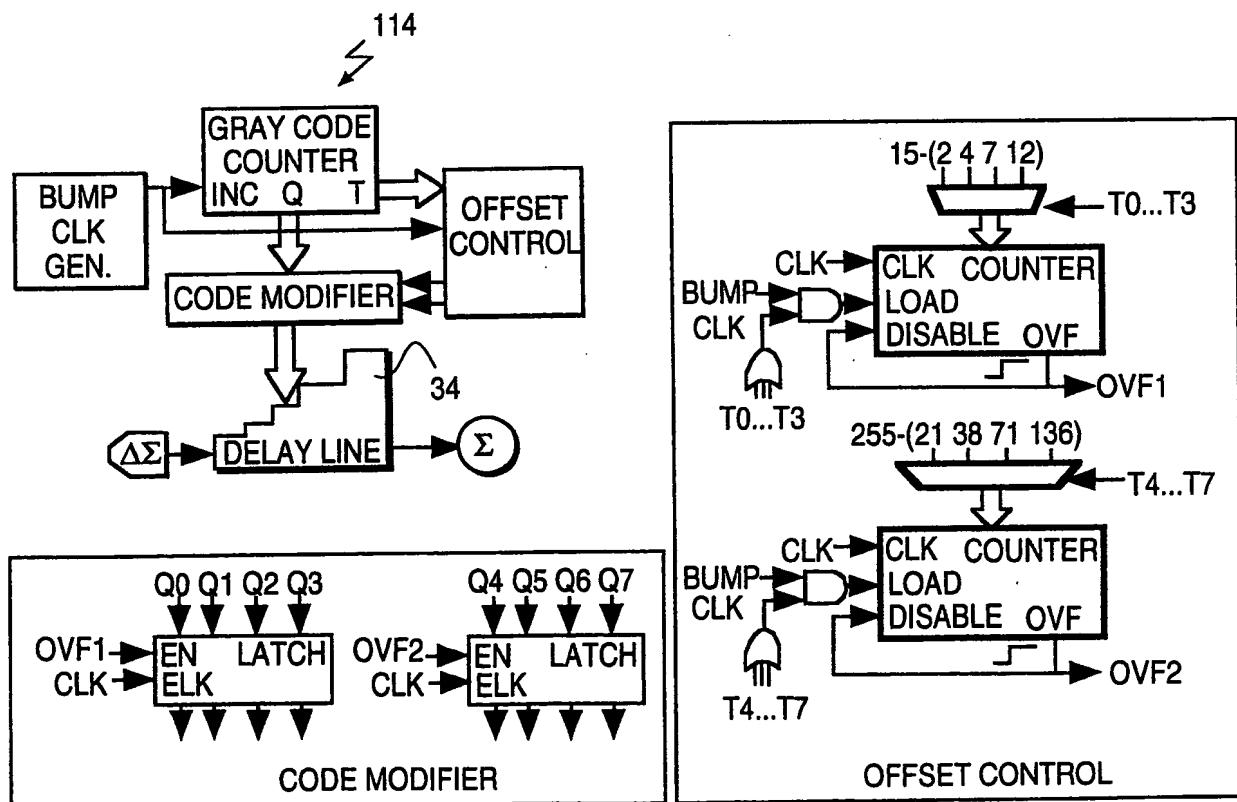


FIG. 15

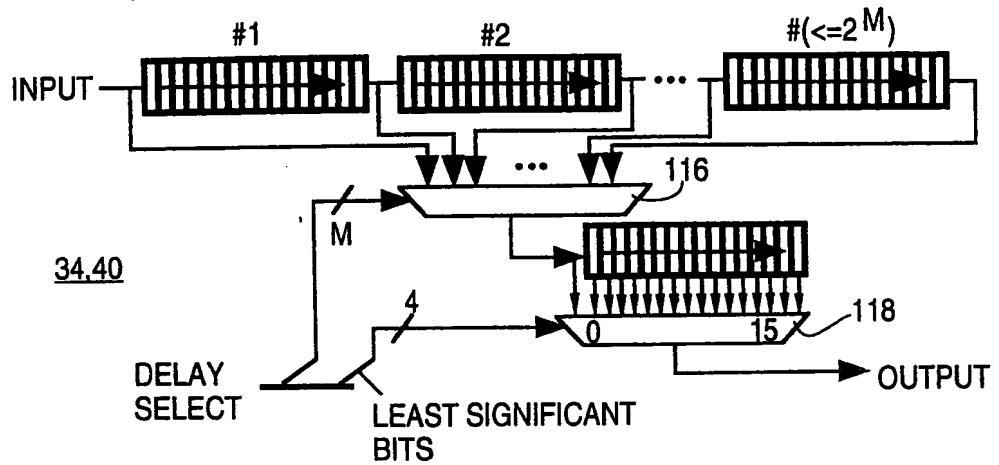


FIG. 16

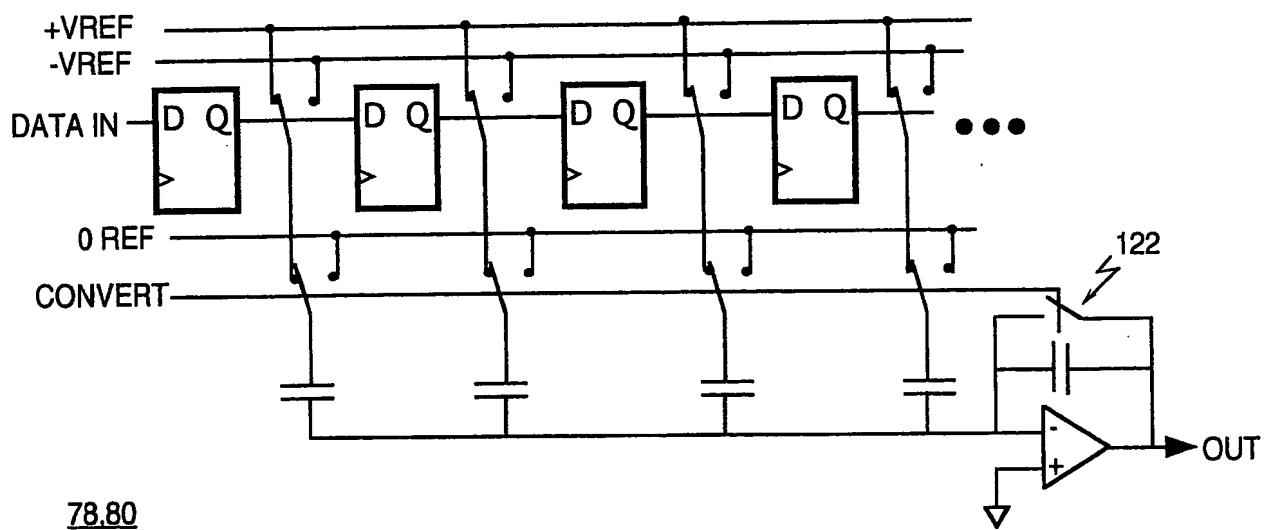


FIG. 17

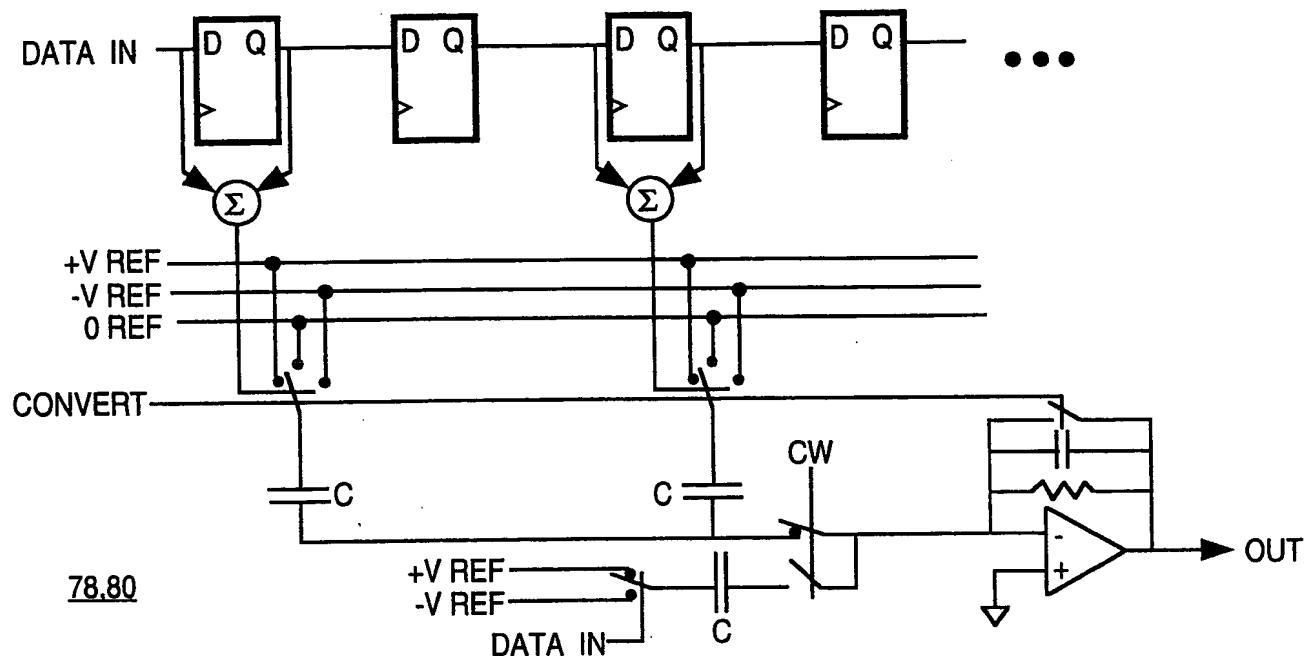


FIG. 18

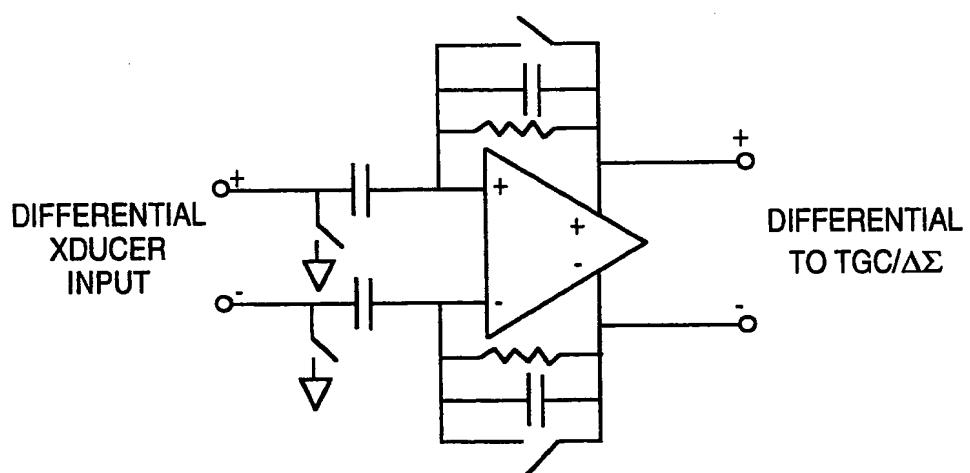


FIG. 19

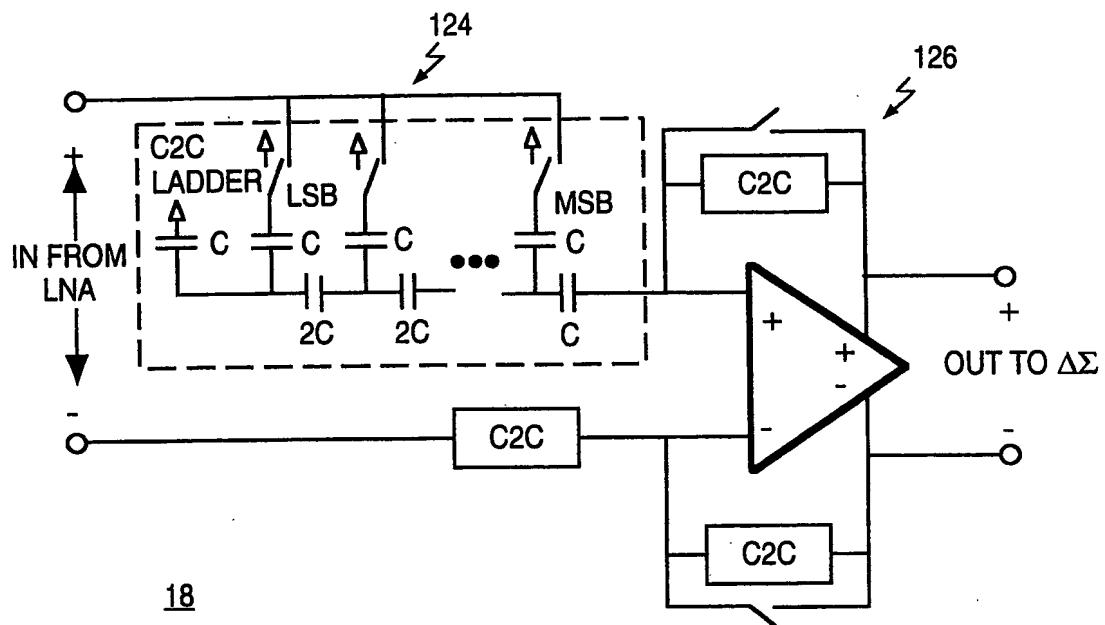
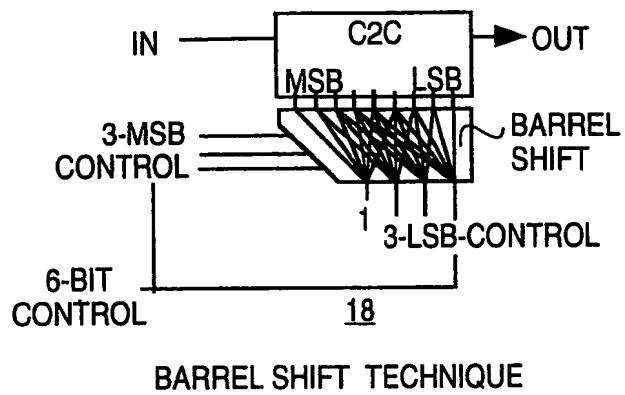
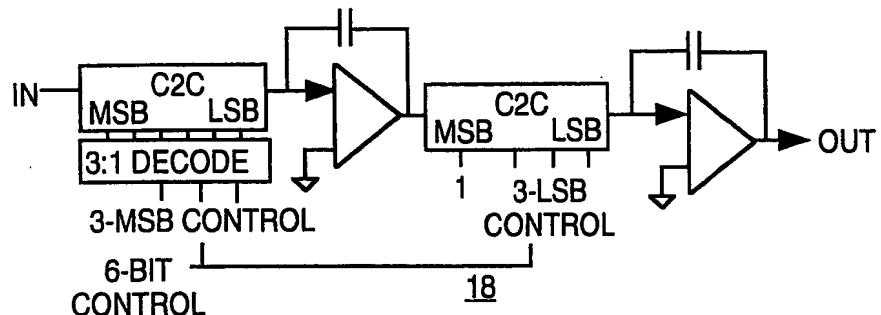


FIG. 20A

BARREL SHIFT TECHNIQUE

FIG. 20B

CASCADeD TGC STAGES TECHNIQUE

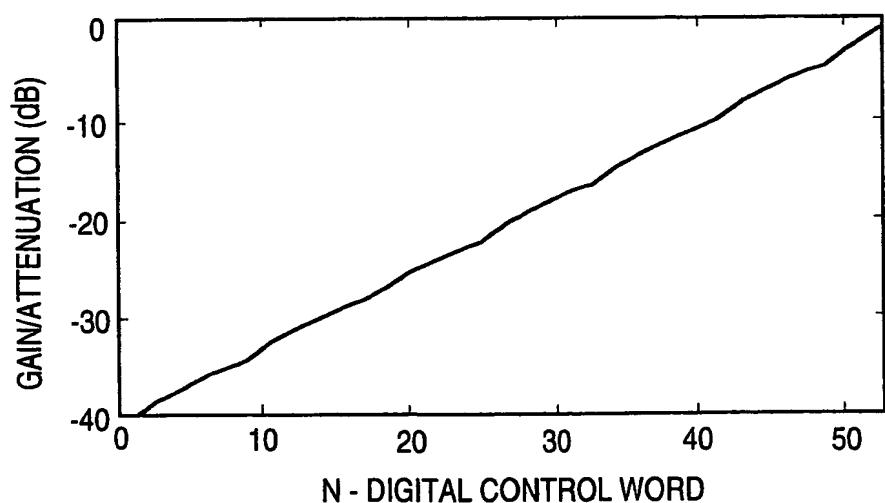
FIG. 21

FIG. 22

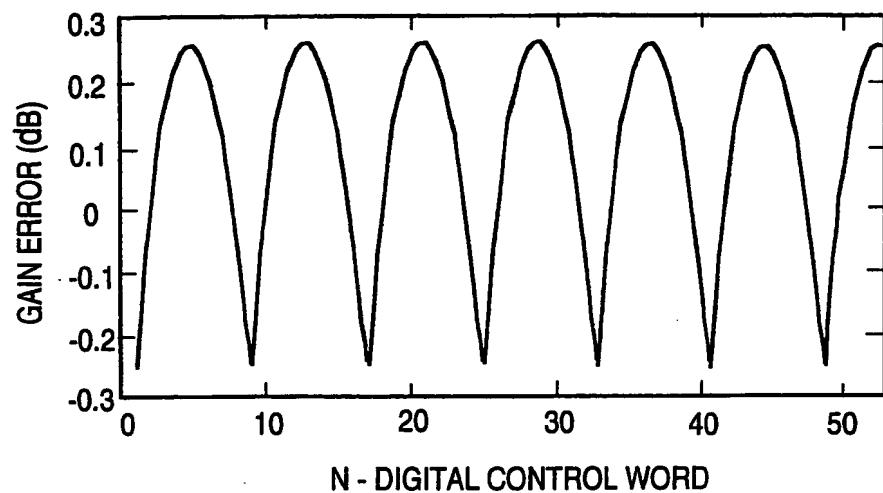


FIG. 23

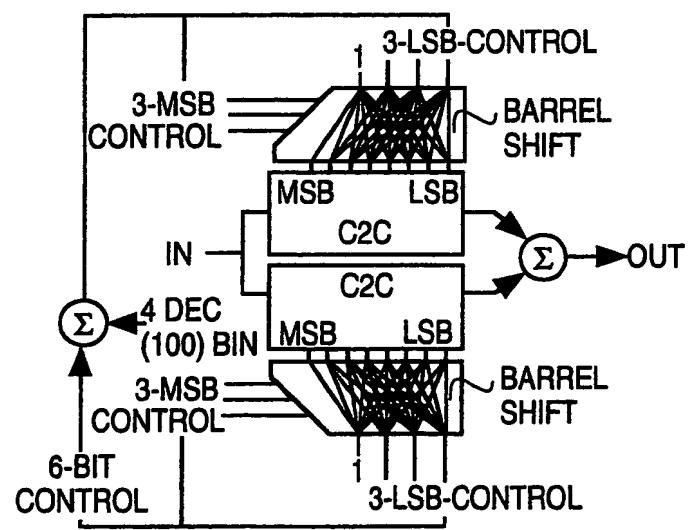


FIG. 24

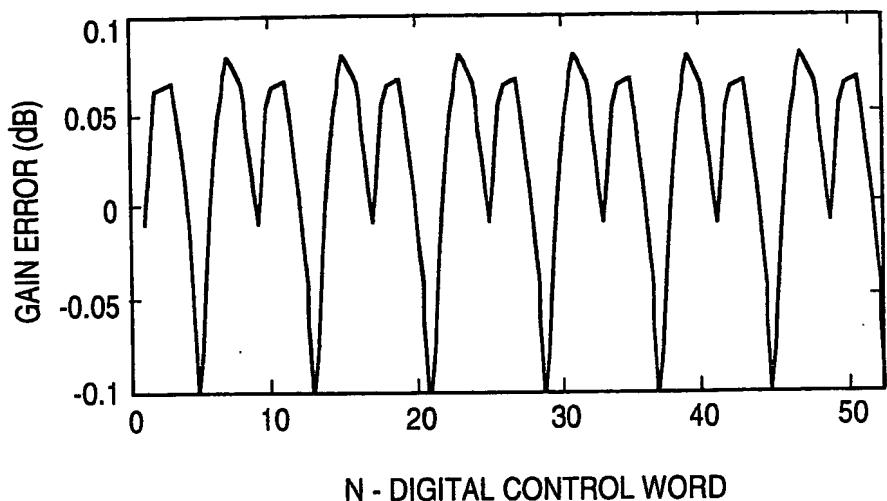


FIG. 25

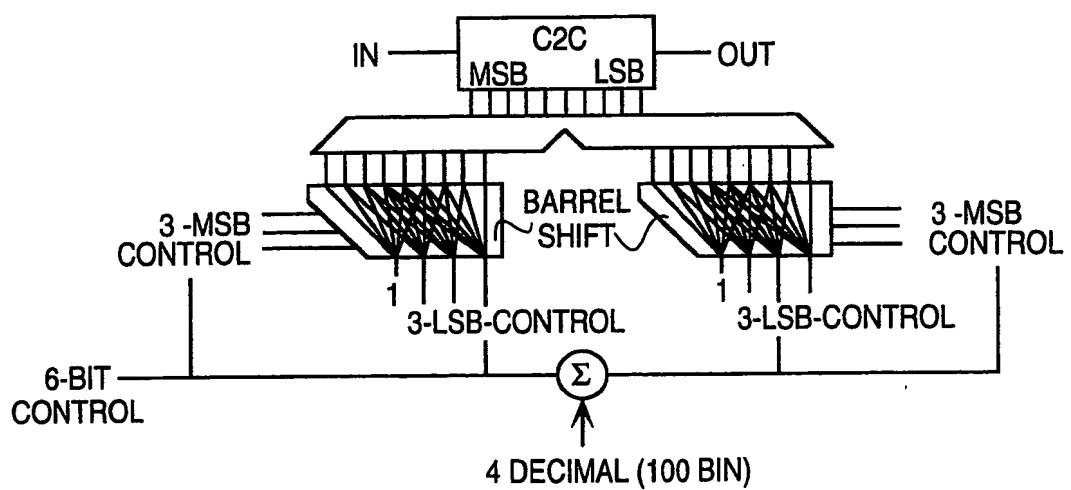


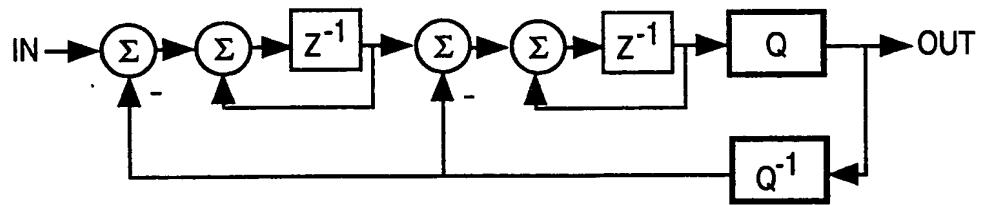
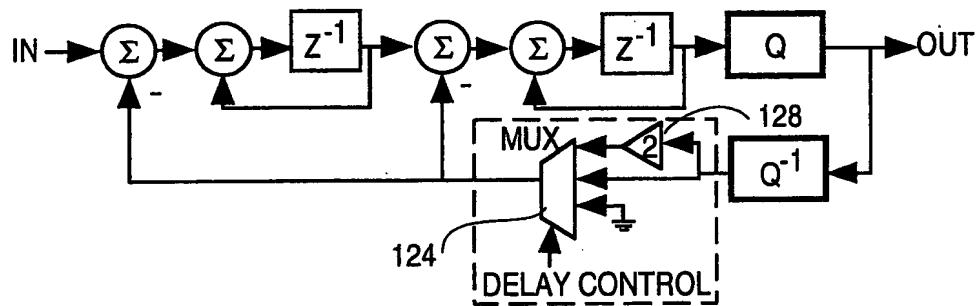
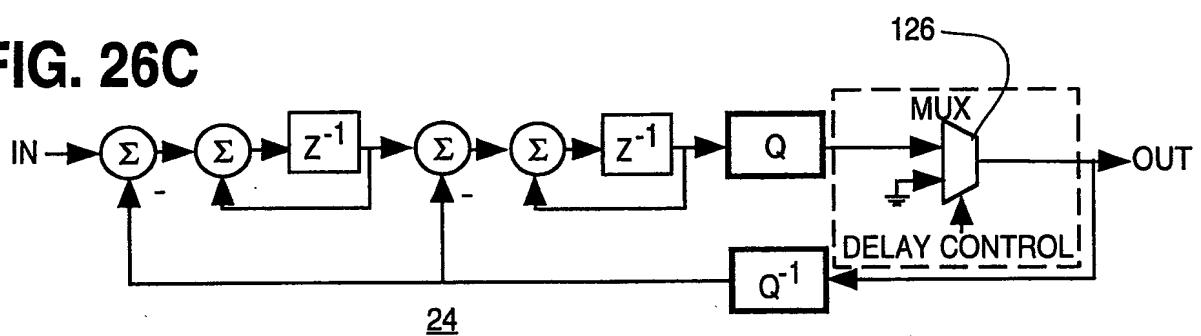
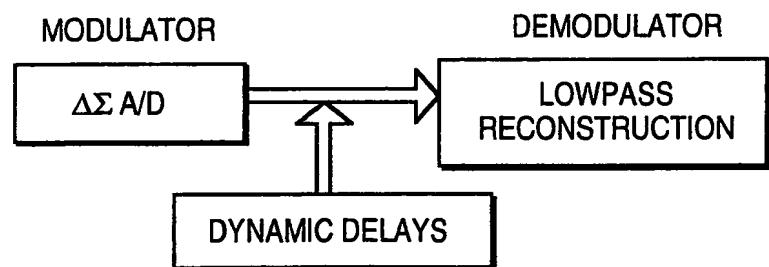
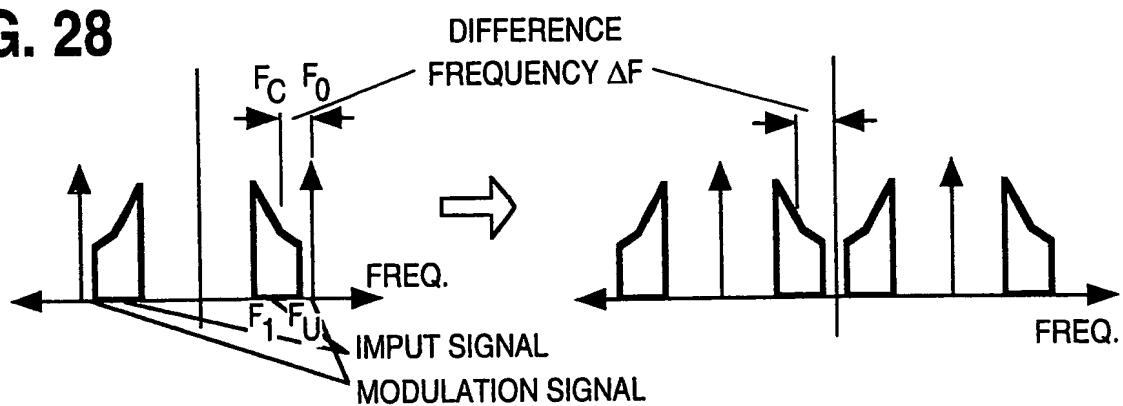
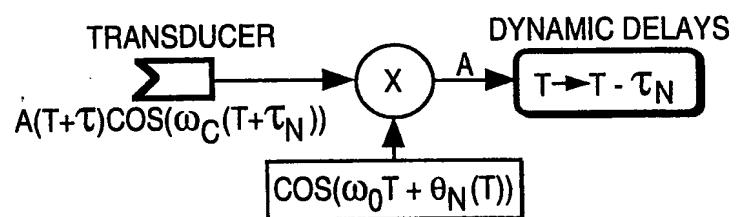
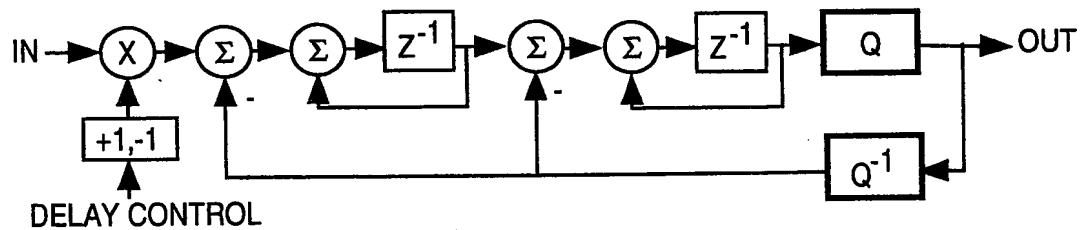
FIG. 26A**FIG. 26B****FIG. 26C****FIG. 27**

FIG. 28**FIG. 29****FIG. 30A**

24

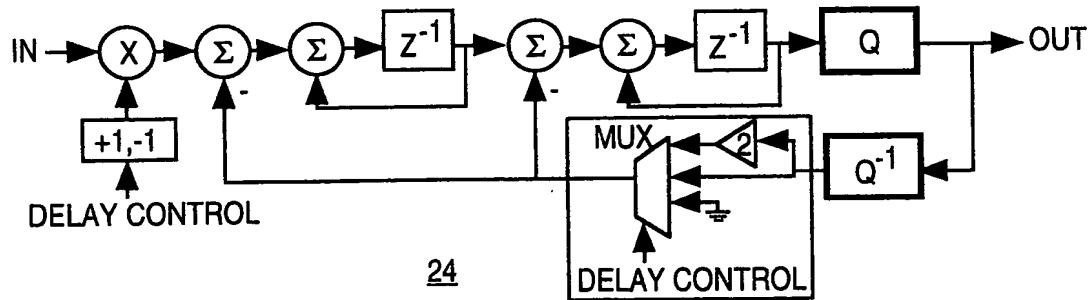
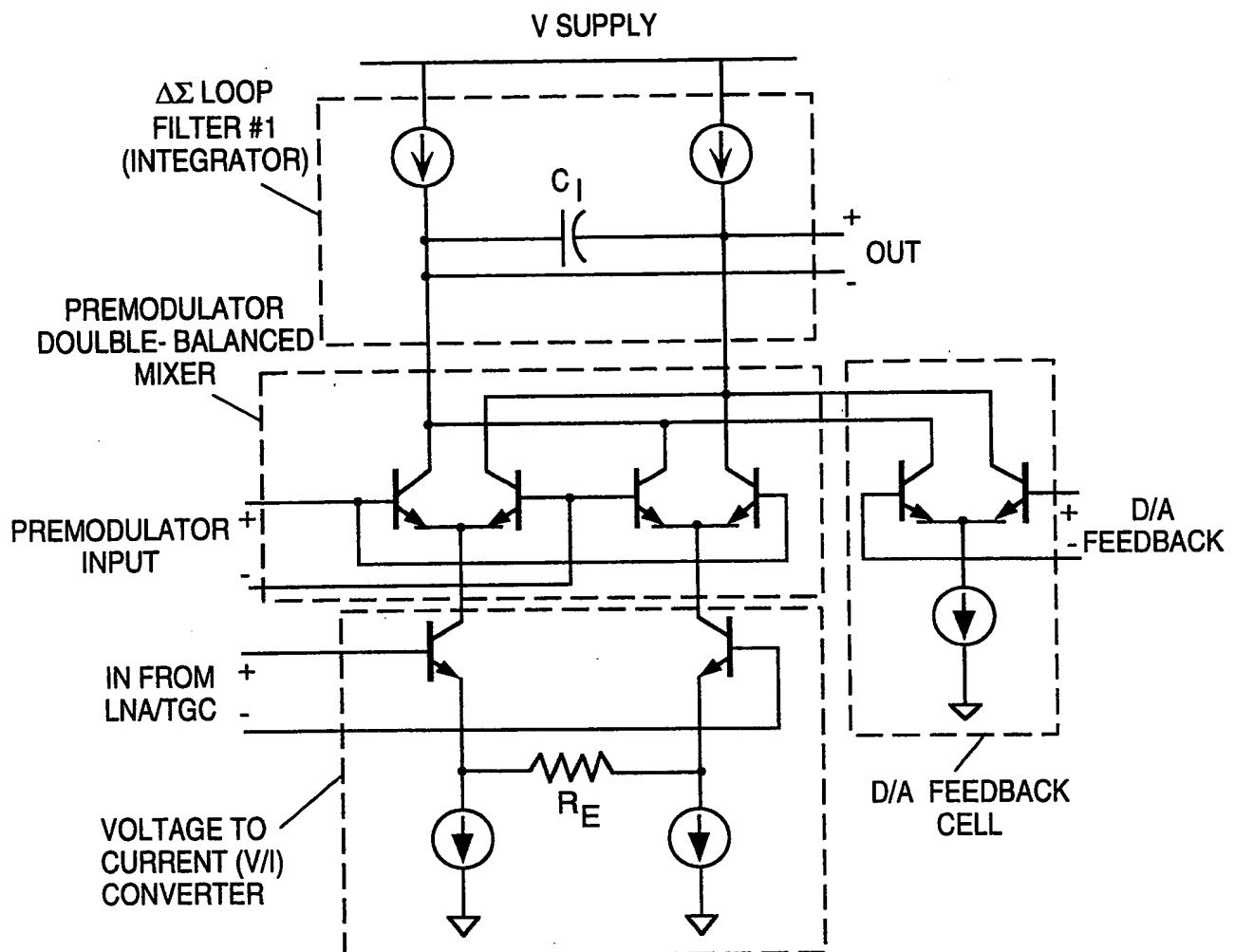
FIG. 30B

FIG. 31



24.26

FIG. 32

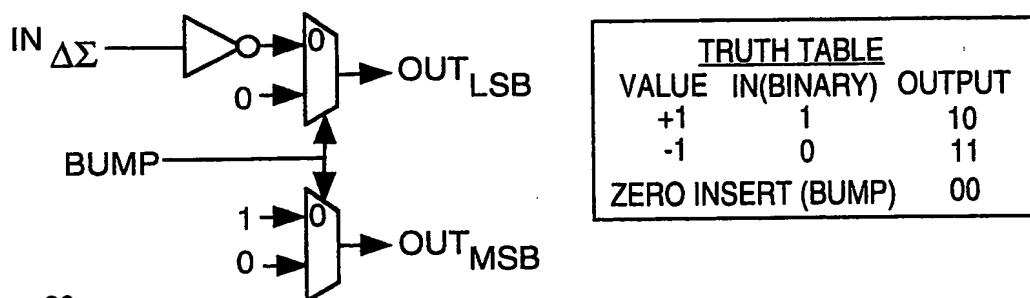
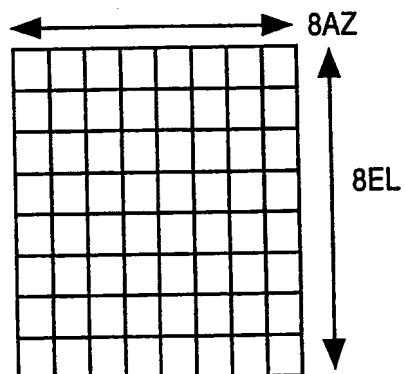
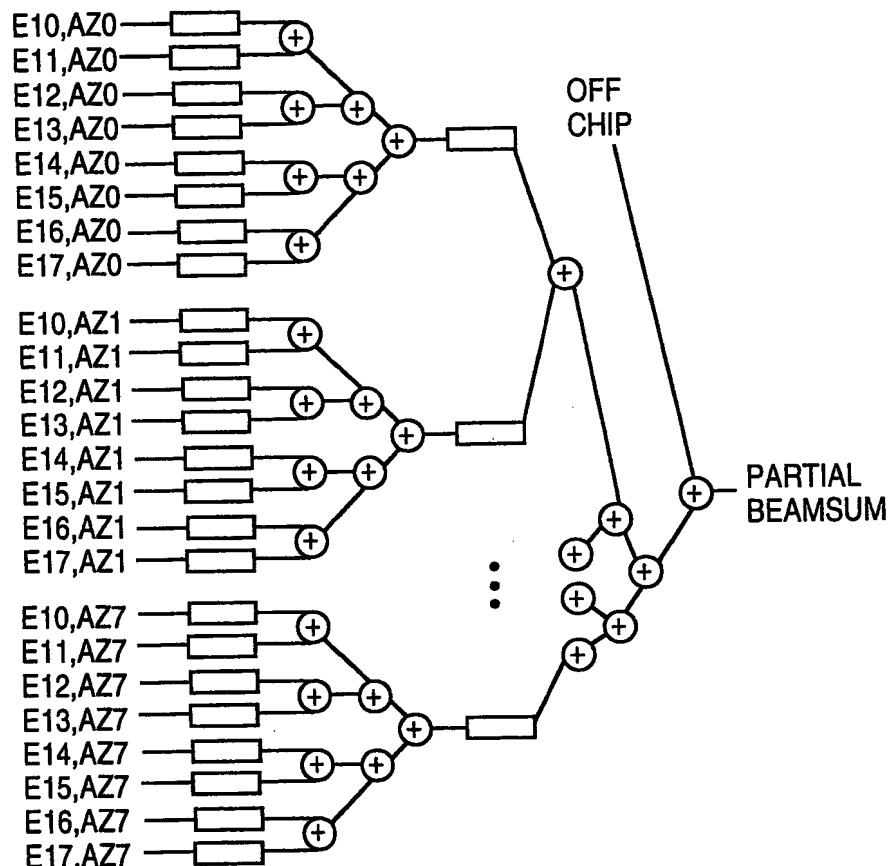


FIG. 33A



NORMAL BEAMFORMER

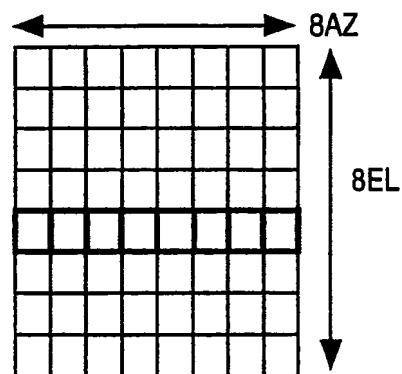
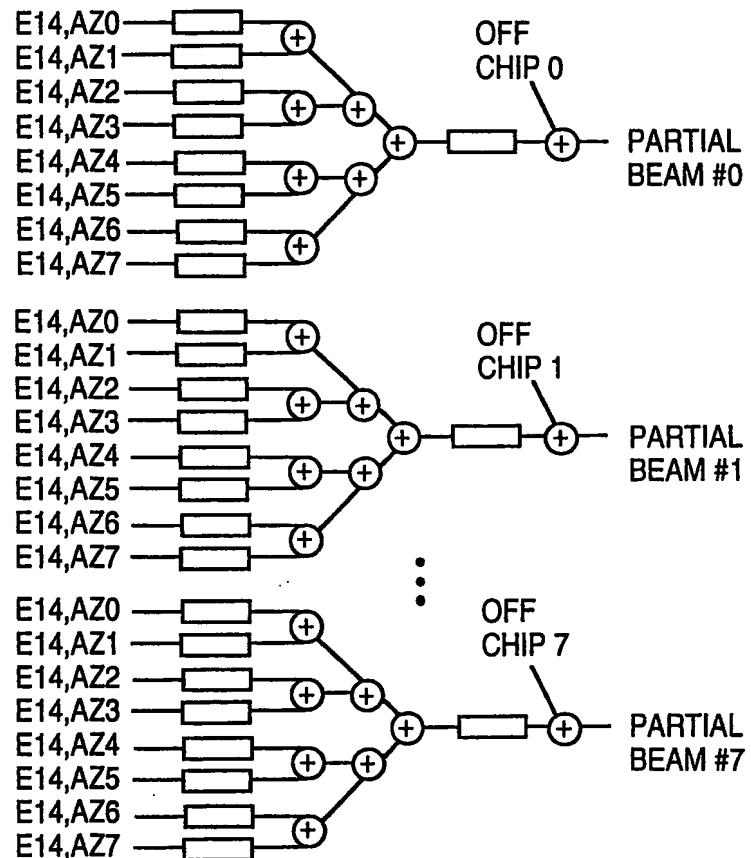
FIG. 33B**MULTIBEAM BEAMFORMER**

FIG. 34

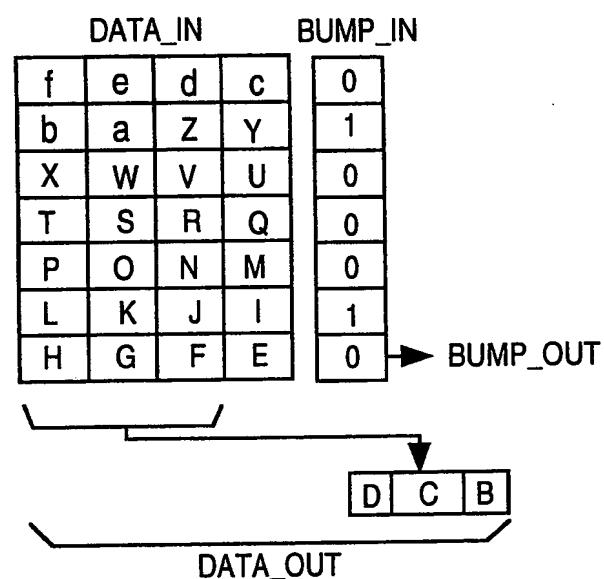


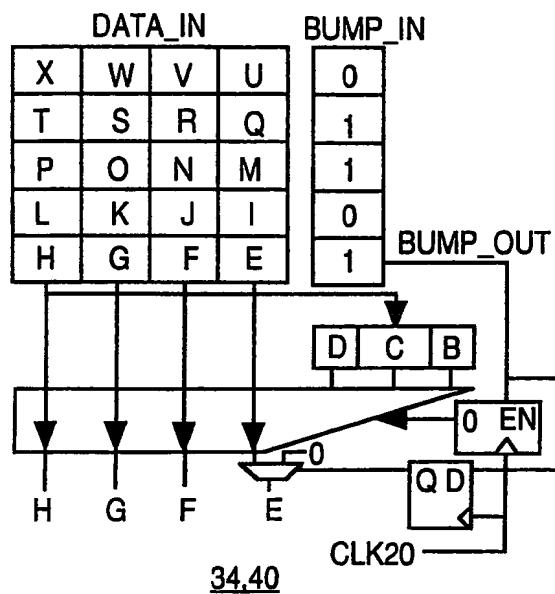
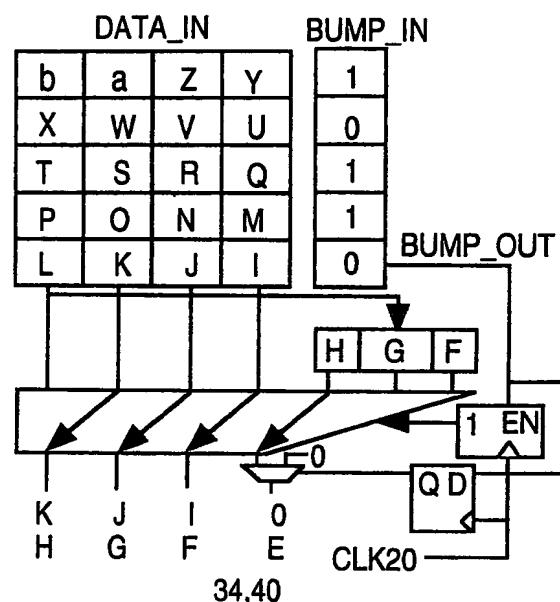
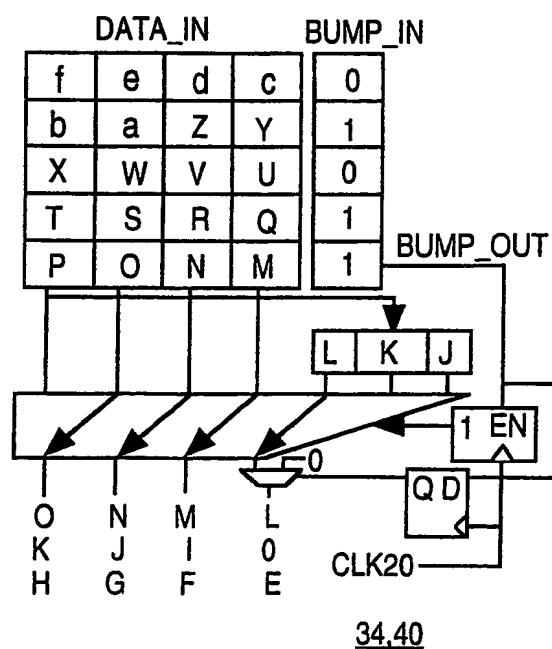
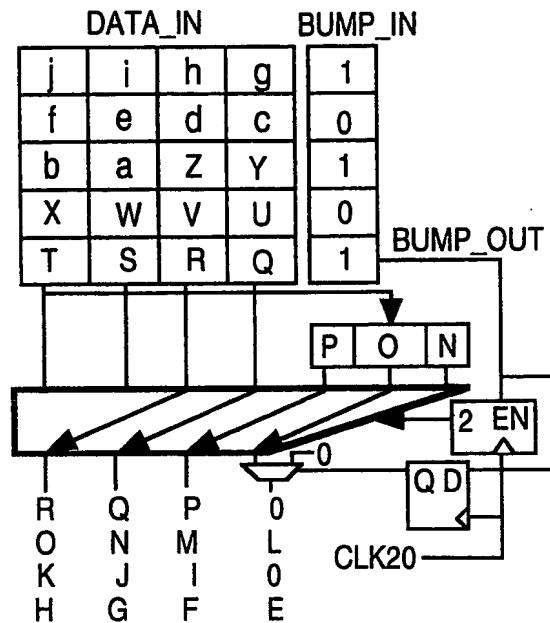
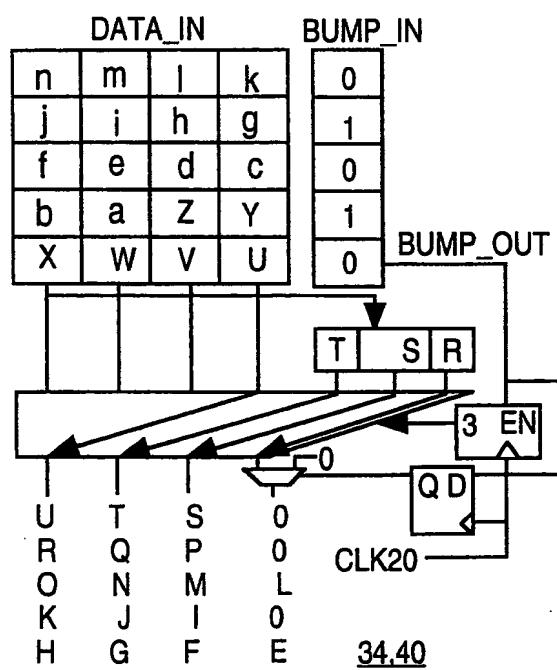
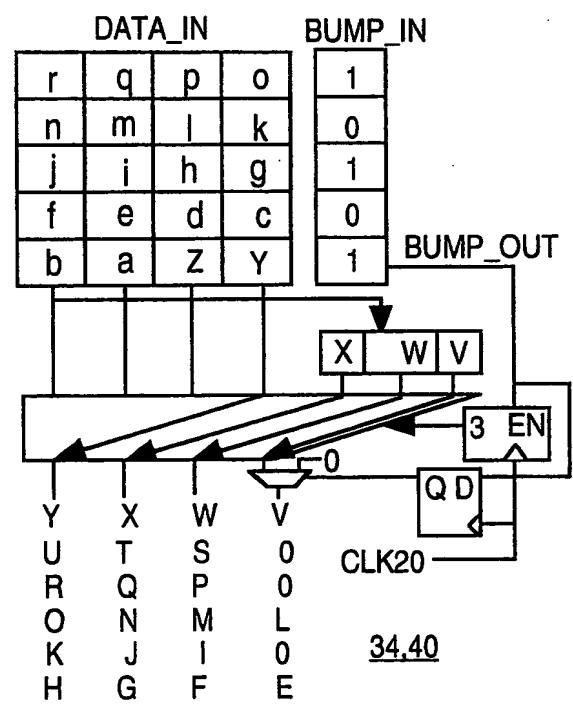
FIG. 35A**FIG. 35B****FIG. 35C**

FIG. 36A

34.40

FIG. 36B

34.40

FIG. 36C

34.40

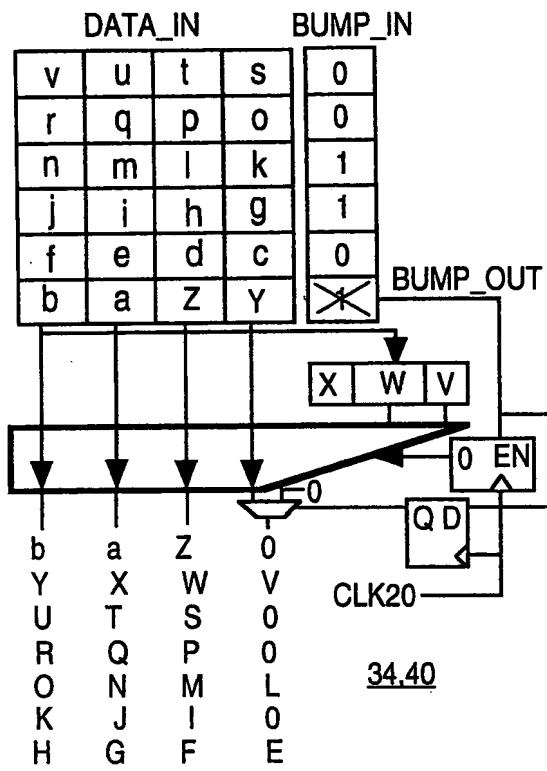
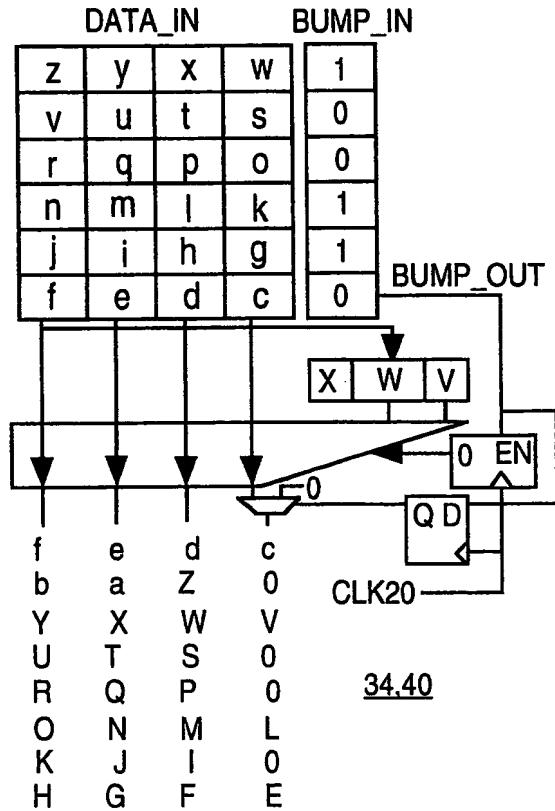
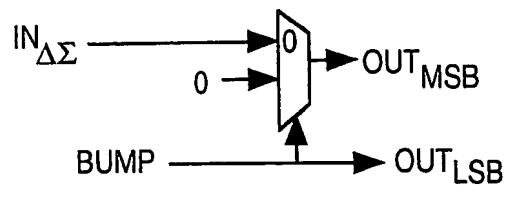
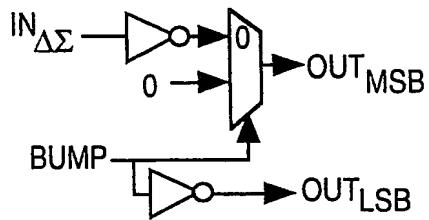
FIG. 37A**FIG. 37B**

FIG. 38A

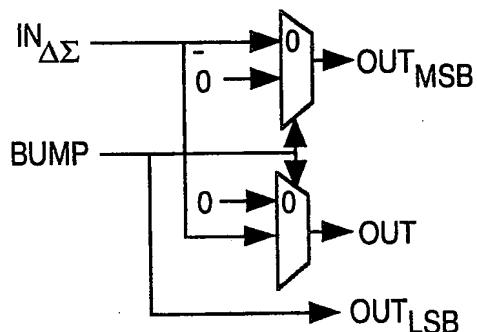
UNSIGNED:

**FIG. 38B**

SIGNED:

**FIG. 38C**

UNSIGNED:

**FIG. 38D**

SIGNED:

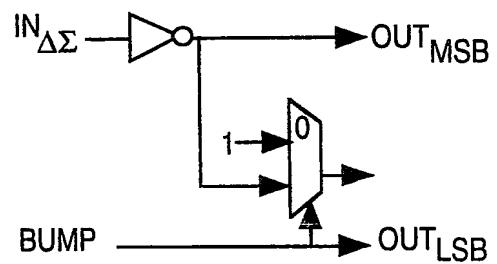


FIG. 39

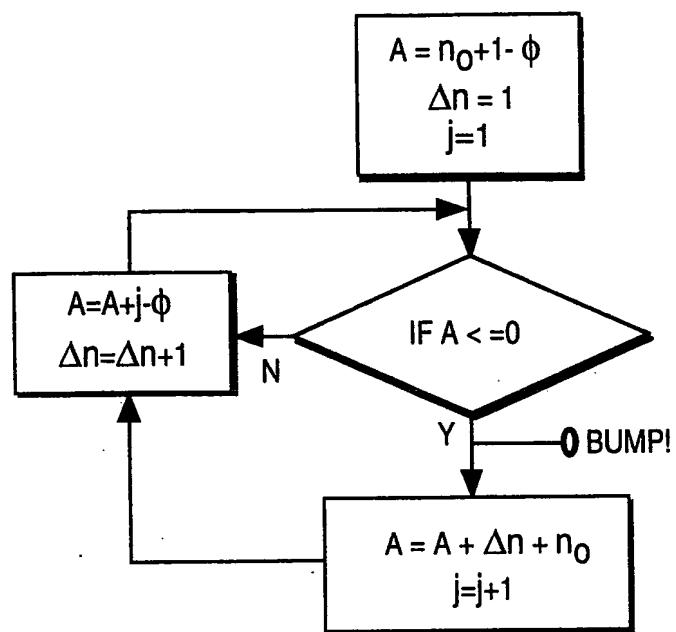


FIG. 40

